

## Beaver Sailors Picked To Race Western Teams

Tech, Brown And Tufts To Fly In Esso Plane To Contest In Chicago

The M.I.T. Nautical Association has received an invitation from the Mid-Western Collegiate Sailing Association, the Chicago Yacht Club, and Northwestern University of Evanston, Illinois, to participate in an Intersectional Invitational Thanksgiving Regatta for the Timme Angustsen Trophy. The regatta is to be held at Belmont Harbor, Illinois, on Friday, Saturday, and Sunday of the Thanksgiving Weekend.

Other New England participants in the Thanksgiving regatta will be Tufts College and Brown University. One Middle Atlantic team, as yet unknown, will appear in the intersectional affair, along with the Mid-Western Schools.

Colleges participating from the Mid-West will be DePauw, Minnesota, Michigan, Wisconsin, Washington University, Dennison, Notre Dame, Northwestern, plus four others who will be selected on the basis of their season's record. This totals a seventeen-team field and should offer plenty of action for all concerned.

### Team Will Fly

Transportation to the meet is being provided for the New England teams through the courtesy of the Esso Co., Standard Oil of New Jersey, who has placed at the disposal of the schools their four-engine C-54 airliner, the SKY MERCHANT. The plane is normally used by the Esso Co. for transportation of top officials and for promotion of sales and company business. However, interest in collegiate nautical affairs has prompted the company to offer the New England schools the use of the plane.

Participating for the Engineers, tentatively, will be Skippers Bob Nickerson and Howie Fawcett in command, with Herb Gevriman and Dick Moroney serving as crews. The alternate for the trip will be Bob Woods.

## Super-Cold Icebox For Metal Research Is World's Largest

Believed to be the world's largest very-low temperature apparatus, a 15-cubic-foot super deep-freeze is now in operation at the Institute. The machine can cool its contents to 452 degrees below zero Fahrenheit and maintain that temperature indefinitely.

Technically called a "cryostat," the new machine was designed and built by Dr. Samuel C. Collins, professor of mechanical engineering, with funds provided by the Navy Bureau of Ordnance and Office of Naval Research.

The new low-temperature machine operates by compressing, regeneratively cooling, and then expanding helium gas until a portion of the gas turns into a liquid just 7½ degrees above absolute zero. It is based largely on principles used by Professor Collins in building the smaller, original cryostat in 1946.

### Machine Meets Needs

Professor Collins remarked that the new machine fulfills the need for a large refrigerated space in which heavy equipment can be cooled and studied. The super ice box has a cylindrical working space 30 inches in diameter and three

(Continued on Page 4)

## British Editor MacKenzie: US Policy Must Be Altered

Advocating drastic changes in the foreign policy of the United States toward Communism, Mr. Norman MacKenzie, assistant editor of the "New Statesman and Leader" in London, England, spoke to a group of students in Room 1-190 last Thursday afternoon.



Photo by Winquist  
Pictured above is Mr. Norman MacKenzie, British editor, who spoke to a group of students on foreign policy Thursday afternoon in Room 1-190.

Mr. MacKenzie contended that both present methods of controlling Communism, force and appeasement, are useless. Use of force is bad because, while countries are arming to defeat Communism, they are decreasing their own economic stability, making their peoples easy prey for infiltration of Communist ideals and of the party itself. The second method, the use of appeasement, is bad, said Mr. MacKenzie, because it gives Communism greater opportunity to move forward against those factions weaker than itself.

### Misleading Policy

He deplores such American policies as supporting the Franco government in the United Nations and forming alliances with German industry, for such acts are good ammunition for Communist propaganda.

To better our foreign policy, we should look for allies in those who are now Communists only because it is the best that they can get, MacKenzie suggested. We must make

(Continued on Page 3)

## T. P. Weekend Sales Are Limited To 500

With ticket sales for Tech's-A-Poppin entering the second week, Sales Manager Frederick A. Radcliffe '51 has announced that the limit for the sports weekend will be five hundred couples. Explaining that the capacity of the Harvard Gymnasium determined the number of weekend tickets to be sold, he emphasized that the committee is not planning to sell any "split" tickets for the weekend.

For those who would care to sit in a particular group, the committee is offering block seating sections of fifteen couples each

### Clayton to Emcee

Frank J. O'Neil '52, social chairman, has announced that local disc jockey Bob Clayton will appear during the dance intermission. Clayton will appear as master of ceremonies for the floor show and the annual Tech's-A-Poppin Queen Contest.

The Hexapoppin show, at the present time, is scheduled to include acts from several girls' schools including Simmons, Boston University, and Emerson. The Boston University group, composed of girls from Murlin House, will present a "flapper" act and a takeoff on several Institute professors.

Simmons' contribution to the show is the Simmons "Blue-ettes," well-known college singing group, specializing in harmonized blues renditions.

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## Police To Begin Tagging Cars Parking In Front Of Building 7 Entrance

Effective November 15th, the Cambridge Police will tag all cars parked on both sides of the street in front of 77 Massachusetts Avenue. All cars on the cross-walks in front of Buildings 5 and 33, and all cars in driveways along Vassar Street will also be tagged. In most cases these locations have been marked with yellow paint.

Students are asked by the department of Buildings and Power to refrain from blocking driveways and approaches to buildings, so that equipment can be brought in quickly in case of fire.

## Tech Debators Take 2nd Place

Unofficially tying for second place, two debate teams from Technology competed last Friday and Saturday in the University of Vermont Fall Invitational Tournament. Most successful contestants in the event from the Institute were: Thomas A. Faulhaber '51 and James A. Zurbrigen '53 who went through the tournament with an undefeated record.

Two teams from Technology, the first comprised of David S. Michelson '53, Robert B. Barnes '53, Faulhaber, and Zurbrigen, and the second with Irwin Manning '51, Thomas Erber '51, William G. Rhodes '51, and Roy Weinstein '51, fought against 72 other teams from 47 schools to earn their unofficial

(Continued on Page 4)

## TCA Drive \$750 Short As Dorm Contributions Fall Off 25% From '49

### Draft Deferment Quotas For Soph R.O.T.C. Received

According to Colonel Charles F. Baish, Professor of Military Science and Tactics, the Military Science Department has received its official quota under which sophomores may sign draft deferment agreements.

The quota was allotted on the basis of the number of men who have already indicated a desire to execute such an agreement. An additional quota will be requested for those sophomores who indicate their wish to be deferred before November 22 and who meet the necessary requirements.

Those for whom deferment agreements have been obtained but do not wish to sign them will be requested to sign a statement to that effect. Those sophomores who are not now enrolled in ROTC, yet have received credit for the Basic Course and intend to enroll in the Advanced Course, are eligible to apply for the Draft Deferment Agreement now.

### New Form

There is a revised deferment agreement, Colonel Baish explained, which incorporates a reference to the Selective Service Extension Act of 1950. Military Science personnel have been instructed to make certain that students sign this deferment agreement rather than the old form.

### BAKER MEMORIAL

To all M.I.T. students: To help the Baker Memorial Committee in its present work of phrasing the charter for the Baker Memorial so as to fully represent the thinking and feeling of M.I.T. students, the committee would greatly appreciate hearing your conception of the objectives of Dr. Baker and of the most effective form for a living memorial to him. Please write to the Baker Memorial Committee, Walker Memorial Building, M.I.T.

## New Dinghy Fleet Soon To Sail Reaches Of Charles River Basin



Photo by Herzfeld  
Herbert J. Brun '53 is shown handing a sail to Peter Felsenthal '54 who is getting ready to "crew" in a regatta. Note the rubber pants he is wearing.

Nine thousand sailors in fifteen years. That is the record of the Institute's Nautical Association, which is now nearing the end of its current sailing season.

One of the oldest organizations of its kind in the country, the Nautical Association of today is very similar to the original sailing group of 1936. An average of

16,000 man-hours a year are spent by its members on the Charles River and other sailing grounds. The membership includes both undergraduates and graduates. Members are ranked according to the sailing ability each possesses. A "crew" is eligible to sail with a helmsman at any time, while a

(Continued on Page 4)

President Glenn Mackey '51 announced Sunday night that the Technology Christian Association had collected just over 4,200 dollars in its annual fund drive. This sum is 750 dollars under the 4,950 dollar goal of this year and more than 800 dollars under last year's total.

This deficit was attributed to the late start taken by the T.C.A. in organizing the drive, and the apparent lack of strong dormitory support. The dormitories fell almost 25 per cent below their total of last year, partly because the residents of Riverside were moving making canvassing in that dormitory extremely difficult.

Holman Dormitory was the only living group to go over 100 per cent. The contribution of one cent from a pet alligator raised their total to a record of 103 per cent contributing. Sigma Nu fraternity came in second with a 100 per cent.

### Highest Average

The group with the highest average per man was Phi Beta Epsilon Fraternity. They had a \$6.55 average due largely to a 100 dollar contribution by one of their members.

T.C.A. plans to maintain all its present services but officials stated that they would not be able to enlarge the Everett Moore Baker Memorial Print Library as planned.

## New Budget Booklet Shows What Happens To Student's Dollar

"Where does my dollar go?" This question has been frequently asked by many students who are concerned with just what is done with their \$800. Recently the Institute issued a booklet in answer to this question. The booklet shows a complete breakdown of student expenses, Institute budget and income.

The Institute's academic budget for 1950-51 totalled \$8,914,000. Deducting expenses for running the DIC office and a few other necessary functionaries, the total average operating expense per student is \$1,400. This is divided up as follows: 23% for general expense which includes administration, pensions and insurance; 45% for faculty salaries; 16% for plant (light, heat, power, and other costs of operation); 4% for Undergraduate Budget Board and Medical Department; 12% for other educational expenses which include such things as departmental expenditures, the library and museums.

### Income

Income comes from five different sources: tuition, 43%; special funds, 22%; income from other sources, 22%; income from general endowment funds, 12%; miscellaneous, 1%.

Income from tuition almost covers the cost of faculty salaries, but does not take care of plant operation, general administration, upkeep of the medical department, library, playing fields, and athletic facilities. These services and facilities are financed largely from gifts and the income from the endowment fund which now totals approximately \$25 million. The total investments of the Institute

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# The Tech

VOL. LXX

TUESDAY, NOVEMBER 14, 1956

NO. 45

Night Editor: Robert B. Bacastow, '52  
Assistant Night Editor: Gilbert H. Steinberg, '52

## CALENDAR OF EVENTS

### WEDNESDAY, NOVEMBER 15

Technology Christian Association. Red Cross Blood Mobile Unit. Tyler Lounge, Walker Memorial, 10:00 a.m. to 4:00 p.m.  
Varsity Soccer Team. Match with Harvard University at Briggs Field, 2:30 p.m.  
Faculty Meeting. Huntington Hall, Room 10-250, 3:05 p.m.  
Richard C. MacLaurin Lodge, A. F. and A. M. Meeting. Masonic Temple, 1950 Massachusetts Avenue, Cambridge, 4:30 p.m. All Masons at M.I.T. are cordially invited to attend.  
Catholic Club. "Saint Thomas More." Reverend Edward J. Nugent, C.S.P. Room 1-190, 5:00 p.m. Everyone cordially invited.  
Inter-Varsity Christian Fellowship. "Life after Death?" Gordon J. Van Wylen. Room 5-104, 5:00 p.m.  
Technology Christian Association. T. C. A. Boys' Work Rally. Moore Room, Room 6-321, 5:00 p.m.  
Tech Model Aircrafter's. Discussion on Flying Scale and "Two-Bitters." du Pont Room, Building 33, 5:00 p.m.  
Staff Players of M.I.T. Supper Meeting and Play "You Touched Me." Emma Rogers Room, Room 10-340, 6:15 p.m.  
Chemistry Department. Harvard-M.I.T. Physical Chemistry Colloquium: "Acidity of Surfaces." Dr. Cheves Walling, Lever Brothers Company. Harvard University, Mallinckrodt MB23, 8:00 p.m.

### THURSDAY, NOVEMBER 16

Technology Christian Association. Red Cross Blood Mobile Unit. Tyler Lounge, Walker Memorial, 10:00 a.m. to 4:00 p.m.  
Aeronautical Engineering Department, Mathematics Department, and Mechanical Engineering Department. Seminar: "The Application of Hodograph Method to the Compressible Flow Problems." Professor A. G. Ghaffari, University of Teran. Room 7-134, 4:00 p.m.  
Civil and Sanitary Engineering Department. Seminar: "Hydraulics Research in Civil Engineering." Dr. Arthur T. Ippen. Room 48-208, 4:00 p.m.  
Physics Department. Colloquium: "The Brookhaven Reactor." Dr. Leland J. Haworth, Brookhaven National Laboratory. Room 6-120, 4:15 p.m.

### FRIDAY, NOVEMBER 17

Mechanical Engineering Department. Seminar: "A New Method of Measuring Specific Heats of Gases." Mr. Gordon J. Van Wylen. Room 3-470, 4:00 p.m. Coffee will be served in Mechanical Engineering Headquarters, Room 3-174, from 3:30 to 4:00 p.m.

### SATURDAY, NOVEMBER 18

Modern Languages Department. Graduate Language Examinations: French and Russian, Room 1-245, 10:00 a.m. to 12:00 Noon; German, Room 3-440, 2:00 to 4:00 p.m.  
Nautical Association. Freshman-Sophomore Sailing Regatta. Sailing Pavilion, 1:00 p.m.

### SUNDAY, NOVEMBER 19

Hillel Society. Radcliffe Acquaintance Dance. Hillel House, 5 Bryant Street, 2:30 p.m.  
Division of Humanities. Concert. Juilliard String Quartet. Room 10-250, 4:00 p.m.  
Hillel Society—Inter-Faith Council Meeting. Reverend Calhoun of Yale University will speak. First Congregational Church, 8:00 p.m.

### MONDAY, NOVEMBER 20

Cross Country. Intercollegiate Association of Amateur Athletes of America at New York, 2:00 p.m.  
Technology Matrons. The Book Club Tea. Dr. Dana L. Farnsworth will speak on the Life and Work of Albert Schweitzer. Room 10-250, 3:00 to 5:00 p.m. Tea will be served in the Emma Rogers Room following the review. Hostesses will be Mrs. Walter C. Voss and Mrs. Irwin W. Sizer.  
American Institute of Electrical Engineers—Institute of Radio Engineers. Student Branch. "Project Whirlwind." Mr. Jay W. Forrester. Room 10-250, 5:00 p.m.  
American Meteorological Society. Boston Student Branch. "Forecasting New England Weather." Mr. Oscar Tenenbaum, Official in Charge, U. S. Weather Bureau, Boston. Room 3-370, 7:30 p.m.

### TUESDAY, NOVEMBER 21

Technology Matrons. The Bridge Group. At the home of Mrs. Leicester Hamilton, 100 Memorial Drive, Apartment 5-8B, Cambridge, 1:00 p.m.  
American Society of Civil Engineers. Seminar: "Pre-Stressed Concrete." Professor Myle J. Holley, Jr. Room 1-150, 4:00 p.m.  
Civil and Sanitary Engineering Department. Civil Engineering Graduate Seminar: "Absorption of Oxygen in Aeration Experiments." Robert S. Yoseph and Lawrence G. Campbell, Room 1-236, 4:00 p.m.  
Lecture Series Committee. "There is Still Time." Pierre Van Paassen. Room 10-250, 5:00 p.m. Reserved Seats 75c; Unreserved, 50c.  
Tech Model Railroad Club. Business Meeting. Room 20E-216, 5:15 p.m.

### WEDNESDAY, NOVEMBER 22

Hillel Society. Seminar. Crafts Lounge, 5:00 p.m.

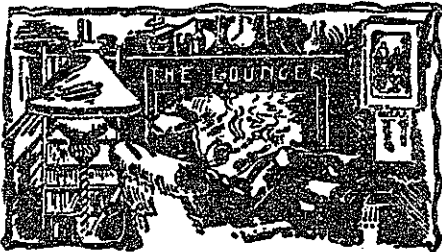
## EXHIBITIONS

An exhibition of Domestic Architecture of the San Francisco Bay Region will be shown in the Lobby of Building 7 through November 18.  
Lithographs of Toulouse-Lautrec will be on display in the New Gallery of the Charles Hayden Memorial Library until November 30.  
Photographic Salon prints by H. J. Ensenberger of Bloomington, Illinois, will be on display in the Photographic Service Gallery, Basement of Building 11, from November 20 to December 3.

## CALENDAR OF EVENTS

The Calendar of Events is published weekly on Tuesday in THE TECH, and contains announcements for the following week. A separate listing of the Calendar of Events can be obtained for one dollar a year, payable in advance at Room 7-204.

Announcements, typewritten and signed, must be in the Office of the Editor, Room 7-204, not later than noon on Thursday, prior to publication date. Material for the Calendar, November 22-28, is due Thursday, November 16.



By STAN BENJAMIN

My humble apologies to the staff of Walker Memorial, and my deepest thanks to the several people who wrote in to correct a grievous error made in this column last week. As Mr. A. C. Hendrickson of the Walker Student Staff points out, "... Walsh rarebit (is) not only the incorrect pronunciation, but the incorrect spelling as well. The correct way to both spell and pronounce it is of course Welsh rabbit. Come to Walker to get educated!"

However, the phrase Welsh rabbit appears to be of slang origin, and actually has no more physical connection with rabbits than does the "hot dog" with dogs. I hope that's settled.

★ ★ ★

Here's a pastime for you fellows who think you have structural

visualization: Three-Dimensional Tic-Tac-Toe! It's played in a cube with four blocks per edge, to eliminate the all-powerful center block found in the 3x3x3 cube. For example, a game can be played by designating the squares on one face of the cube by numbers, and picturing that set up in four consecutive planes which could be lettered. Let me illustrate:

11	12	13	14
21	22	23	24
31	32	33	34
41	42	43	44

Planes: A, B, C, D

Thus, the combination, A11-B22-C33-D44, would constitute a win. Try it some time when you feel

like goofing-off.

Next comes four-dimensional chess.

★ ★ ★

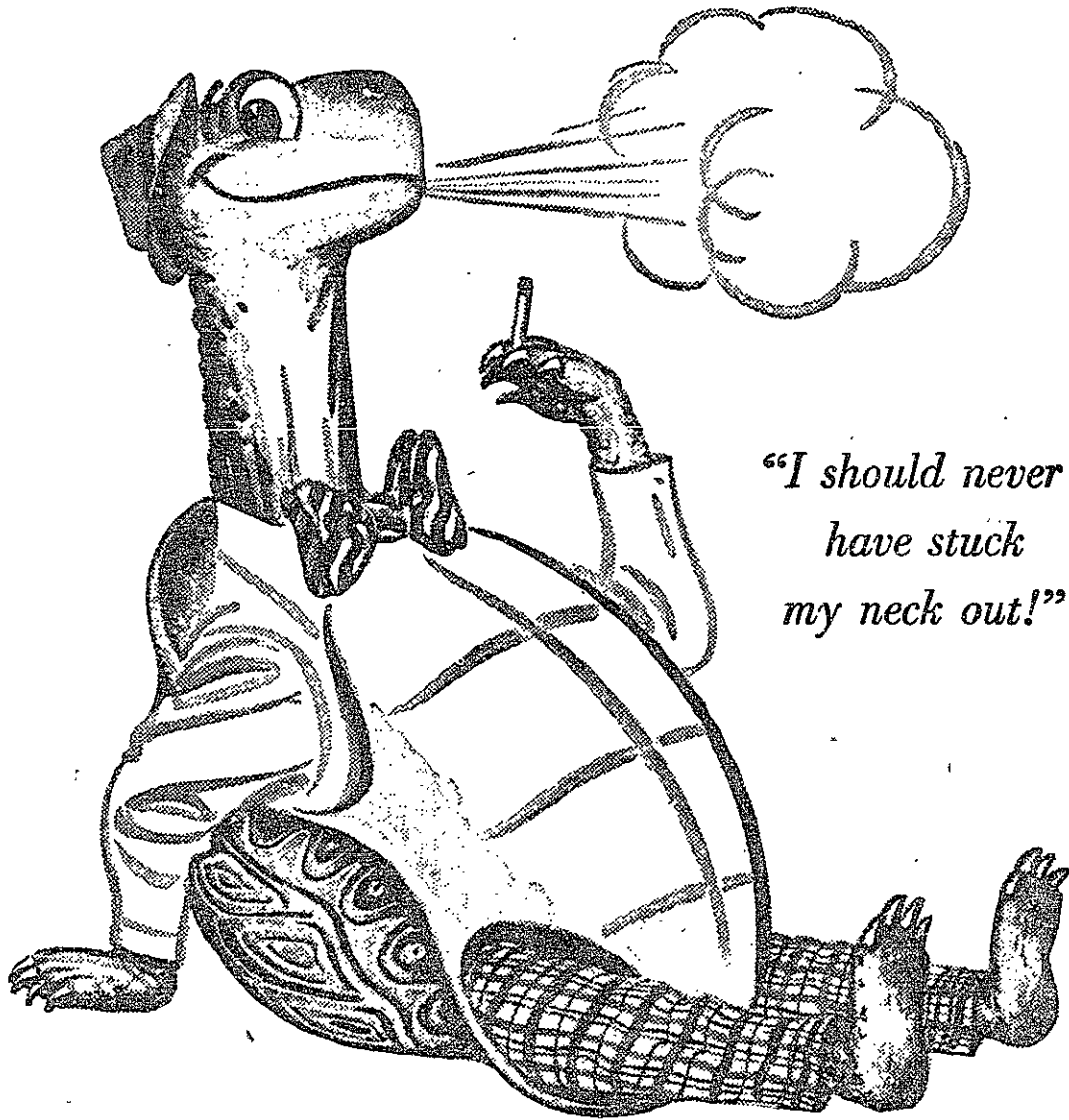
This is worth a reprint just on its own merits, so here, without comment, is an item from UP, dated from Vincennes, Indiana:

"Forrest Waggoner, state policeman, said it was the messiest accident he ever investigated: a concrete mixer stopped on a bridge to unload its contents and was hit by a truck loaded with tomatoes and fertilizer. A truck loaded with watermelons skidded into the rear of the second truck and, in turn, was hit by a truck loaded with 90 barrels of crude oil."

after theatre . . .  
the best lines lead  
to cocktails at the  
hotel Lafayette!

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## Campus Interviews on Cigarette Tests Number 6...THE TURTLE



They had our slow-moving brother moving at too fast a pace with those quick-trick cigarette tests! A fast puff... a swift sniff... a quick inhale... a rapid exhale. Terrapin's head was spinning — didn't know if he was coming or going! But he slowed down to his own speed — decided there was no need to rush. After all, he figured, how could anyone possibly prove cigarette mildness so fast? And he was right, too! That's why we suggest: *The sensible test*... the 30-Day Camel Mildness Test, which simply asks you to try Camels as your steady smoke — on a pack after pack, day after day basis. No snap judgments needed. After you've enjoyed Camels — and only Camels — for 30 days in your "T-Zone" (T for Throat, T for Taste) we believe you'll know why...

**More People Smoke Camels  
than any other cigarette!**





# New Dorms And Theta Chi Win Opening Tilts In Pigskin Finals

Intramural football finals opened with two close skirmishes the past weekend as the New Dorms A scraped by the Grad House 18 to 12 and Theta Chi took Sigma Alpha Epsilon 7 to 0.

These games were the first section of a round robin affair in which each team will meet the other three. This coming Saturday afternoon at two the Grad House

will meet Theta Chi while S.A.E. battles the New Dorms. The clinching title tilts will be run off the next day at 2 p.m. Theta Chi clashes with the New Dorms and Sigma Alpha Epsilon faces the Grad House.

Additional referees are needed for the remaining four games. Those interested may contact George Butzow or Bill Teeple at CI 7-7790.

# Engineer Soccermen Lose To W.P.I. 5-0, Frosh Beat Brandeis

Last Saturday the Beaver soccer team traveled to Worcester where they were upset by the Worcester Polytech squad by a count of five to nothing.

W.P.I. got the first goal of the encounter after seven minutes of the first period and added another two in the second frame. One of these was scored by means of a penalty kick. Another Worcester penalty kick was stopped by Goalie Pete Silveston. After a scoreless third quarter the W.P.I. squad came back in the final frame to score two more times.

In two frosh games last week the Beavers lost the first one to Brown 5-3 but on Saturday they were able to get into the win column with a 3-2 win over Brandeis.

# Technology Sailors Win Fowle Trophy As They Down Best N. E. Teams

With a 3-1 victory over second-place Harvard in the Leonard M. Fowle Trophy regatta last Saturday and Sunday, the Beaver skippers brought home their seventh major trophy and their third championship of the fall season, the NEISA Invitational Team Racing Championship. The championship regatta, featuring a field of eight teams, closes the regular Fall competition of the New England Intercollegiate Sailing Association and that of the Engineers as well.

## Tournament Style

Formerly a summer individual regatta, the Fowle regatta assumed the role of a team racing championship only this year. The affair was set up in a tournament style with the four top-seeded teams meeting the four others in the

first round competition. After the first round, which featured two-out-of-three competition, the regatta proceeded in regular elimination fashion, the winner of three out of five races being declared the winner of the round.

In first round of competition, scheduled at nine o'clock Saturday morning, all four seeded teams, M.I.T., Tufts, Harvard and Coast Guard ended in the victors' column. In the contest, which paired the Engineers against the Lord Jeffs from Amherst, Tufts against Brown, Harvard with Boston College, and Coast Guard with R. I. State, MIT eliminated her opponent handily in the first two races.

## Tech Beats Harvard

Both Tech and Harvard emerged victorious from the second round, each winning the first three races, in the three-out-of-five competition. In the final round, also a three out-of-five affair, the Crimson took the first race. But the Beavers not to be outdone, swept the next three races, taking the final round and the trophy as well.

Meanwhile, in the consolation rounds, the Coast Guard Cadets dropped the Tufts crew to take third place, giving the Jumbos fourth. Brown eliminated Amherst and BC took Rhode Island in their second round. Boston College then edged the Bruins for spot number five. Brown then took sixth, and Rhode Island defeated Amherst for seventh, leaving the Lord Jeffs in the eighth and last spot.

## Skippers for Tech

Skippers for Tech were Bob Nickerson, Howie Fawcett, Herb Gevirman, and Dick Moroney, with crews Larry Buckland, Jake Kerwin, Bob Woods, and Pete Felsenthal. Winds were light, offering little trouble except for occasional calms.

# Tech Rugby Team Ties One And Loses One

Last weekend the Beaver Rugby team traveled to Montreal to play a doubleheader with the Westmount English Rugby Club and McGill University.

In the first game Tech was swamped by the powerful McGill aggregation 8-0. McGill had control of the ball almost the whole game. Tech's backs couldn't crash the strong defense their opponents set up on the few occasions when they did have the ball.

In the second game Pete Smith captained the Beaver forward wall to a heartbreaking tie with the Westmount Club. Westmount scored first but after that the Beavers took control of the play. Very strong goal line stands by Westmount cost Tech the victory.

## Mackenzie

(Continued from Page 1)

our actions work toward the social and economic needs of the people of the world, and in this way eliminate the conditions in which Communism breeds, he concluded.

# Dixieland Jazz Records

THIS WEEK'S SPECIAL  
FEATURING  
"WILD BILL" DAVISON  
DIXIELAND JAZZ JAMBOREE  
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IT IS ANOTHER FEATURE THAT HELPS TO MAKE  
TECH'S-A-POPPIN (DEC. 1, 2)  
THE SOCIAL-ATHLETIC WEEKEND OF THE YEAR



glass after glass after glass

Schaefer

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the beer that's both light and dry

Look for the name  
Pale Dry  
on the red and white  
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OUR HAND HAS NEVER LOST ITS SKILL

The F. & M. Schaefer Brewing Co., New York, N. Y.



## Low-Grade Coal Can Produce Good Steel Reports Dr. Killian

Dr. James R. Killian, Jr., president of the Institute, told a Birmingham, Alabama, audience last Friday night that diminishing supplies of first-grade coal no longer threaten to mean diminishing supplies of high-grade steel.

Reporting on current research and educational activities at the Institute, Dr. Killian said that recent research first sponsored by the Republic Steel Corporation and now also by the American Iron and Steel Institute in the Metallurgy Department, has established the fundamental chemistry of sulphur in steel furnaces. The work gives assurance that brittleness arising from sulphur in steel can be controlled in steelmaking processes.

### New Metals Lab

This means, Dr. Killian said, that lower grades of coke, containing more sulphur, may now be used for making even the highest grades of steel.

The result of a \$1,000,000 gift from Alfred P. Sloan, Jr., Chairman of the Board of General Motors Corporation, a new Metals Processing Laboratory building is now under construction in Cambridge.

Citing the work of a student and faculty research group under the direction of Professor John Chipman, head of the metallurgy department and a graduate of the University of the South, Dr. Killian said that this research, "including what is believed to be the first equilibrium study of the distribution of sulphur in blast furnaces, has for the first time put the theory of steel desulphurization on a sound basis."

**Ice Box** (Continued from Page 1) feet deep. This space is cooled by five expansion engines driven by compressed helium.

Standing over 16 feet high, the cryostat has a refrigerated space capped during operation, by a steel lid containing a glass window through which the experiments may be observed. A vacuum insulates the entire machine from room temperatures.

### Dinghy

(Continued from Page 1) "helmsman" can take out a boat alone at any time. "Racing skipper" can enter any of the Association's races. "Bosun" is the top rank. The various ranks are reached by passing examinations first on the fundamentals, and later on the fine points of sailing.

The boats are, of course, the major equipment of the Association. Though getting on in age, the original fleet is still in use, however, a new group of dinghies is expected in the near future.

### Boats Are 15 Years Old

Because the boats are fifteen years old, they are somewhat difficult to keep in repair. While there has not been a lack of available boats, there are always a few on which work is being done. Almost all the masts have been spliced, and many stainless steel stays have had to be replaced. When it is remembered that such fleets usually last ten years, and that the members of the Association do more actual sailing than is done in almost any other such college organization, the fact that the boats have lasted this long is even more remarkable.

## NOTICES

### Television Society

There will be a meeting of the Television Society in Room 4-409 at 5:00 p.m. on Tuesday, November 21.

### Varsity Lacrosse Candidates

A Lacrosse rally for varsity only will be held in Team Room C of Briggs Field House on Thursday, November 16, at 5:00 p.m.

### Referees Wanted

Referees are needed for the Intramural Championship games to be held Saturday and Sunday. All those who are interested should contact George Butzow or Bill Teeple at Circle 7-7790.

### Atomic Warfare

"Atomic Warfare and Foods" will be the title of a talk by John W. M. Bunker, Dean of the Graduate School. He will address the Samuel Cate Prescott Chapter of the Institute of Food Technology this Thursday, November 16 at 8:00 p.m. in the Moore Room. Everyone is welcome to attend.

### Budget Booklet

(Continued from Page 1) are \$50 million. The remaining funds are gifts to be applied to specific purposes such as new labs, and dorms.

Technology's tuition of \$800 is 33 1/3% higher than ten years ago whereas in this same period of time other technical schools have raised their tuition 45.5% and liberal arts colleges 52.2%. The Institute's expenses have gone up 125% in the meantime.

### Debators

(Continued from Page 1) tie for second place. Each team was divided into sections arguing the positive and negative.

Arguing the proposition, "Resolved, That the non-Communist nations form a new international organization," the affirmative section of Team A won two and lost two, while the negative section was undefeated. Team B affirmative had no wins and four losses, but the negative section fared better with a split of two and two.

Following the debate Saturday night, Faulhaber, along with two other debaters from undefeated teams in the contest, spoke over radio station WJOY in Burlington, Vermont, where the debates were held.

### READ & WHITE

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HOTEL BRADFORD

### Ground-breaking

Ground-breaking ceremonies for the new John Dorrance Laboratory of Biology and Food Technology will take place at 11:30 a.m. on November 15th between the Alumni Pool and Building 8. All students are welcome to attend.

### Management Association

"Elections and Election Results As They Affect Unions" will be discussed at a M.I.T.M.A. seminar to be held in the Library Projection Room 14-0615 at 5:00 p.m. on Thursday, November 16. Mr. Reginald H. Zalles, Political Coordinator of the Massachusetts State C.I.O. Council, will be guest speaker.



Student's Price  
for  
**TUXEDO**  
Junior Prom

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### Tech's-a-Poppin

(Continued from Page 1)

### New Style Hexapoppin

Also scheduled to appear in the Hexapoppin show is a group from the Boston Federated Newman Clubs presenting several excerpts from a new Minstrel show which

will have its premiere the following evening in Boston.

This year's Hexapoppin Show is entirely new in two respects. It is not a contest as it has been in the past, and it is no longer composed of amateur shows from the different fraternity houses.

DON'T BE A  
"STUFFY STUDE"  
Make a date with  
your best gal...

... and take her to the Five  
& Drum Room for an evening she'll never forget.  
Wonderful food. Romantic  
dance music by Jimmy  
McHale and his orchestra.

*Five and Drum Room*



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**PHILIP MORRIS** challenges  
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HUNDREDS OF THOUSANDS OF  
SMOKERS, who tried this test,  
report in signed statements that  
**PHILIP MORRIS IS DEFINITELY  
LESS IRRITATING, DEFINITELY Milder!**



1... Light up a PHILIP MORRIS  
Just take a puff—DON'T INHALE—and  
s-l-o-w-l-y let the smoke come through  
your nose. Easy, isn't it? And NOW...

2... Light up your present brand  
Do exactly the same thing—DON'T  
INHALE. Notice that bite, that sting?  
Quite a difference from PHILIP MORRIS!

Other brands merely make claims—but PHILIP MORRIS invites you  
to compare, to judge, to decide for yourself.  
Try this simple test. We believe that you, too, will agree...  
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THE NEW HEX-A-POPPIN VARIETIES  
AN HOUR AND A HALF OF ENTERTAINMENT  
FEATURING TOP TALENT FROM  
SIMMONS B. U. M.I.T.  
EMERSON NEWMAN CLUBS

This is just one of the many features  
To be presented by Tech's-a-poppin  
FULL WEEKEND TICKETS ON SALE IN BUILDING 10  
AT \$4 PER COUPLE